

Statsconsultancy Ltd

Freelance Statistical Consultancy

Address: 40 Longwood Lane, Amersham, Bucks. HP7 9EN

Email: paul@statsconsultancy.co.uk

Phone: 07905 530446

Web: www.statsconsultancy.co.uk

4th November 2019

Dear Sir/Madam,

Re: “Day case versus inpatient total shoulder arthroplasty: A retrospective cohort study and cost-effectiveness analysis” by Dr Aditya Borakati

I am writing with regard to the above manuscript. I have reviewed the paper independently from a statistical perspective. I had no knowledge of the research project or manuscript prior to this review.

My view is that the statistical aspects of the paper are very well done. Appropriate statistical methods have been performed to analyse the data. The results are clearly described, both in tables and in the text.

My only comment relates to a further addition I would like to see in the paper, which is a comparison of the two key outcomes at the pre-operative timepoint. It is quite common to observe that patients with worse outcomes at baseline can improve more after an intervention. So, if the two groups vary pre-operatively, this can have an impact on the sort of changes you might expect in the two groups, and thus the group differences. Thus, it is suggested that the pre-operative values for the two outcomes are added to Table 1.

To conclude, the standard of the statistical sections of the manuscript are appropriate for publication in a medical journal.

Yours Faithfully,

A handwritten signature in black ink that reads "Paul Bassett". The signature is written in a cursive style with a large, looped initial 'P'.

Paul Bassett
Statsconsultancy Ltd